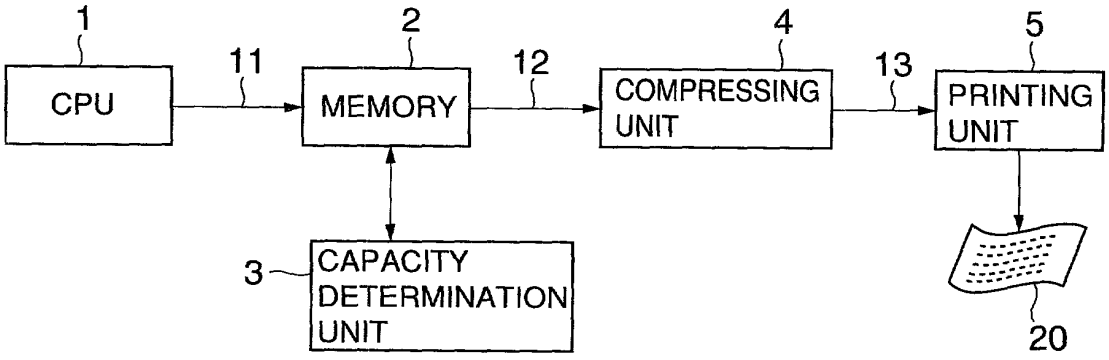

FIG.1

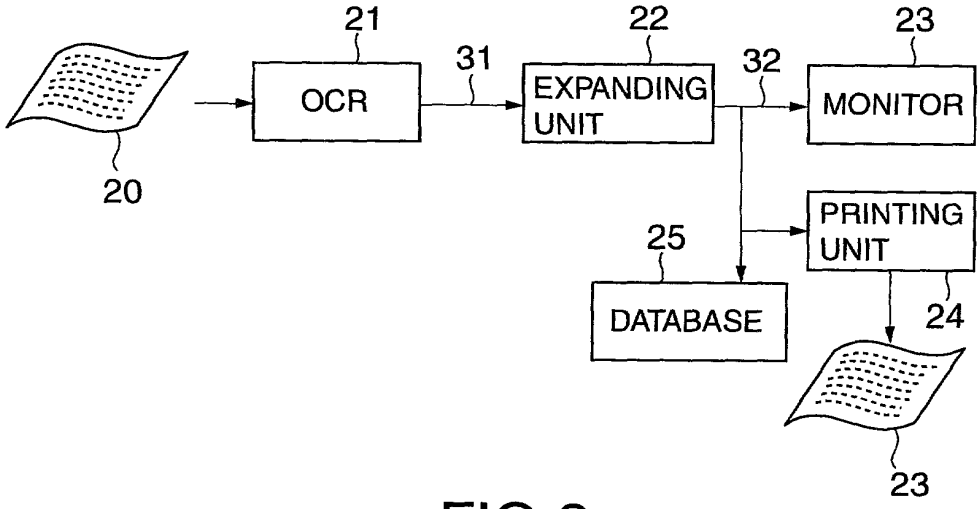

FIG.2

Page 2 of 2

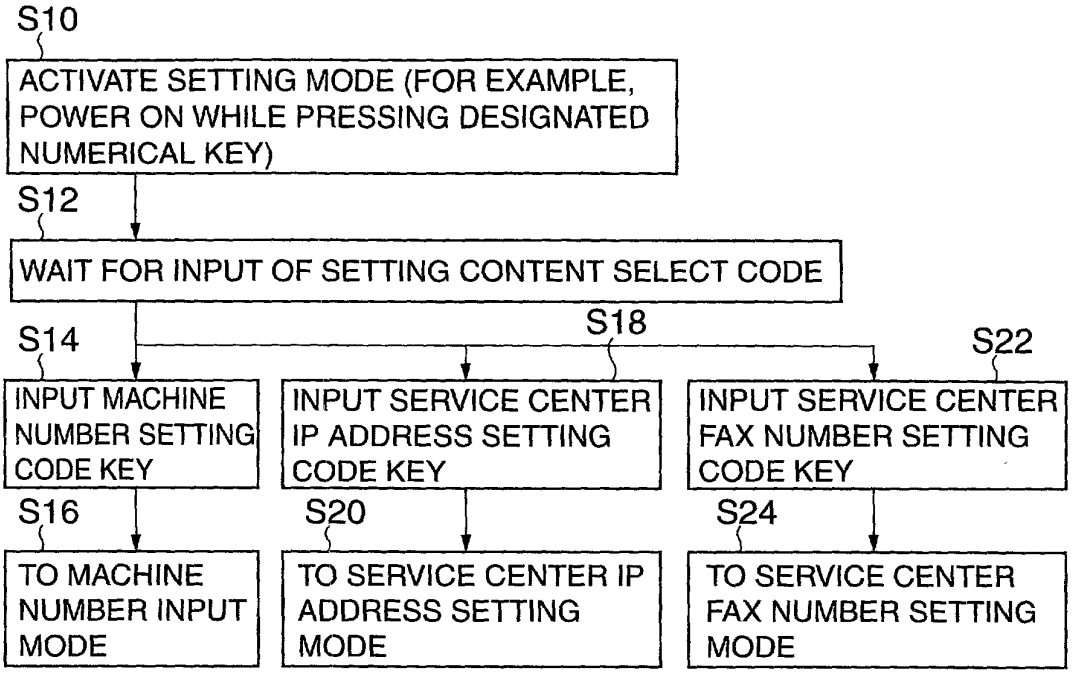
S10
ACTIVATE SETTING MODE (FOR EXAMPLE, POWER ON WHILE PRESSING DESIGNATED NUMERICAL KEY)
S12
WAIT FOR INPUT OF SETTING CONTENT SELECT CODE
S14
S18
S22
INPUT MACHINE NUMBER SETTING CODE KEY
INPUT SERVICE CENTER IP ADDRESS SETTING CODE KEY
INPUT SERVICE CENTER FAX NUMBER SETTING CODE KEY
S16
S20
S24
TO MACHINE NUMBER INPUT MODE
TO SERVICE CENTER IP ADDRESS SETTING MODE
TO SERVICE CENTER FAX NUMBER SETTING MODE

FIG.3

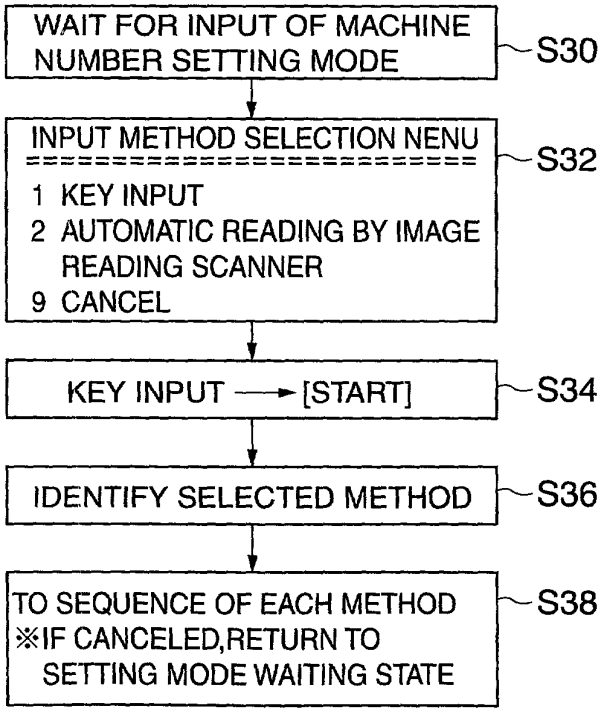
WAIT FOR INPUT OF MACHINE NUMBER SETTING MODE
S30
INPUT METHOD SELECTION NENU
1 KEY INPUT
2 AUTOMATIC READING BY IMAGE READING SCANNER
9 CANCEL
S32
KEY INPUT → [START]
S34
IDENTIFY SELECTED METHOD
S36
TO SEQUENCE OF EACH METHOD
※IF CANCELED,RETURN TO SETTING MODE WAITING STATE
S38

FIG.4

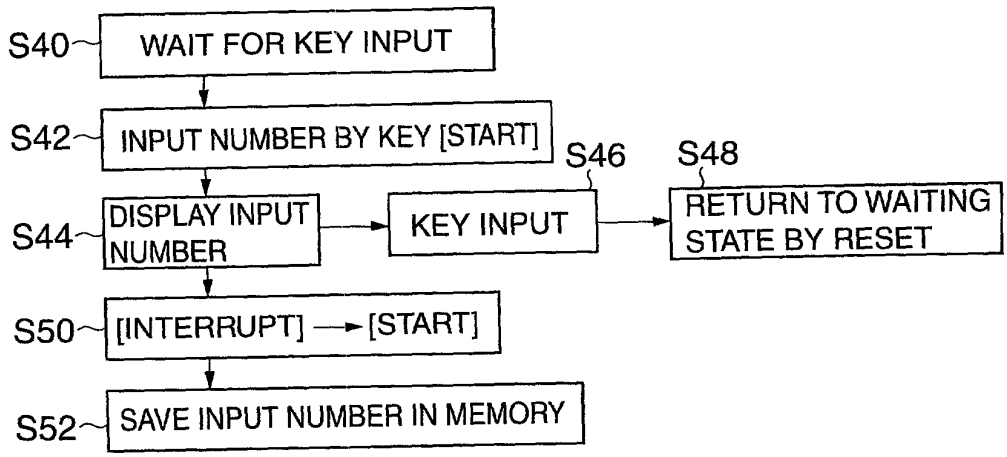
S40
WAIT FOR KEY INPUT
S42
INPUT NUMBER BY KEY [START]
S44
DISPLAY INPUT NUMBER
KEY INPUT
S46
S48
RETURN TO WAITING STATE BY RESET
S50
[INTERRUPT] → [START]
S52
SAVE INPUT NUMBER IN MEMORY

FIG.5

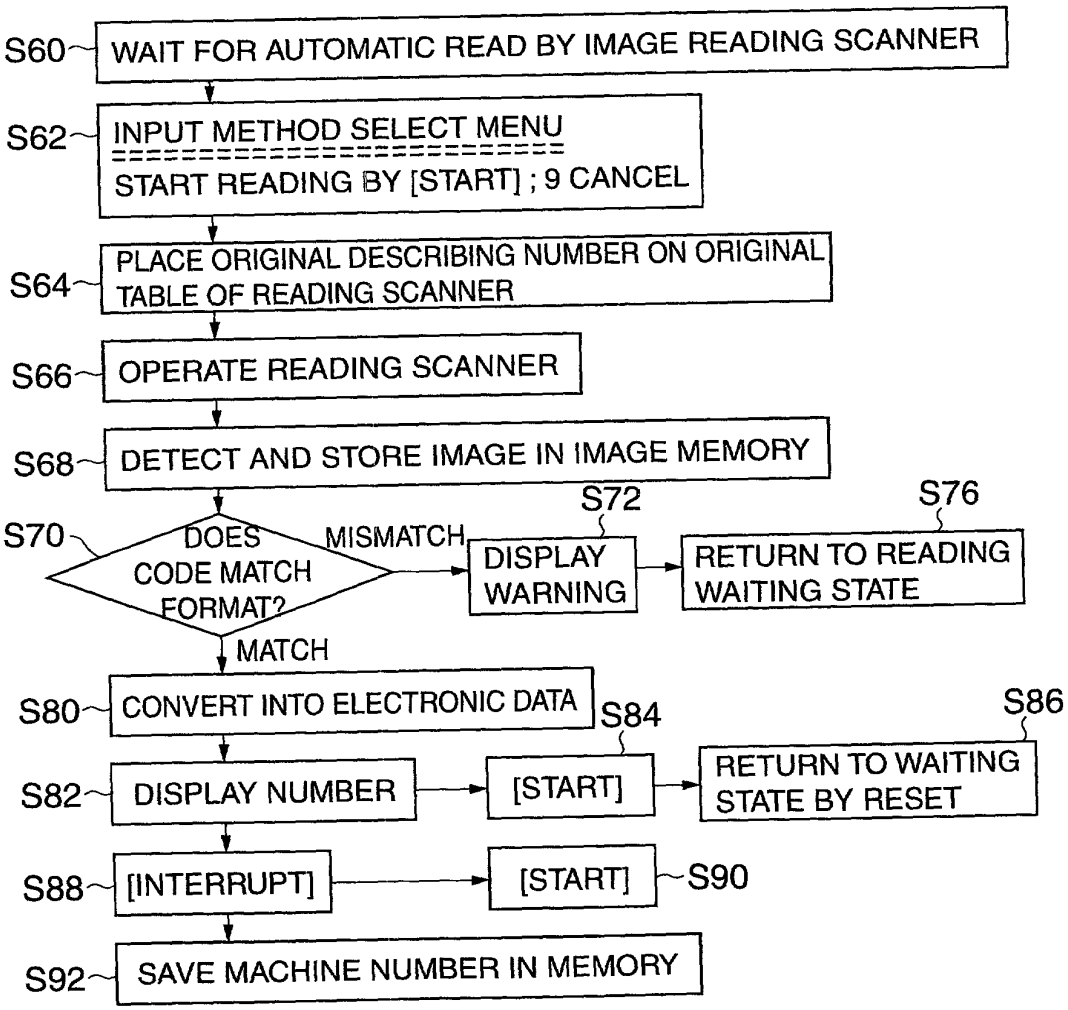
S60
WAIT FOR AUTOMATIC READ BY IMAGE READING SCANNER
S62
INPUT METHOD SELECT MENU
START READING BY [START] ; 9 CANCEL
S64
PLACE ORIGINAL DESCRIBING NUMBER ON ORIGINAL TABLE OF READING SCANNER
S66
OPERATE READING SCANNER
S68
DETECT AND STORE IMAGE IN IMAGE MEMORY
S70
DOES CODE MATCH FORMAT?
MISMATCH
S72
DISPLAY WARNING
S76
RETURN TO READING WAITING STATE
MATCH
S80
CONVERT INTO ELECTRONIC DATA
S82
DISPLAY NUMBER
S84
[START]
S86
RETURN TO WAITING STATE BY RESET
S88
[INTERRUPT]
[START]
S90
S92
SAVE MACHINE NUMBER IN MEMORY

FIG.6

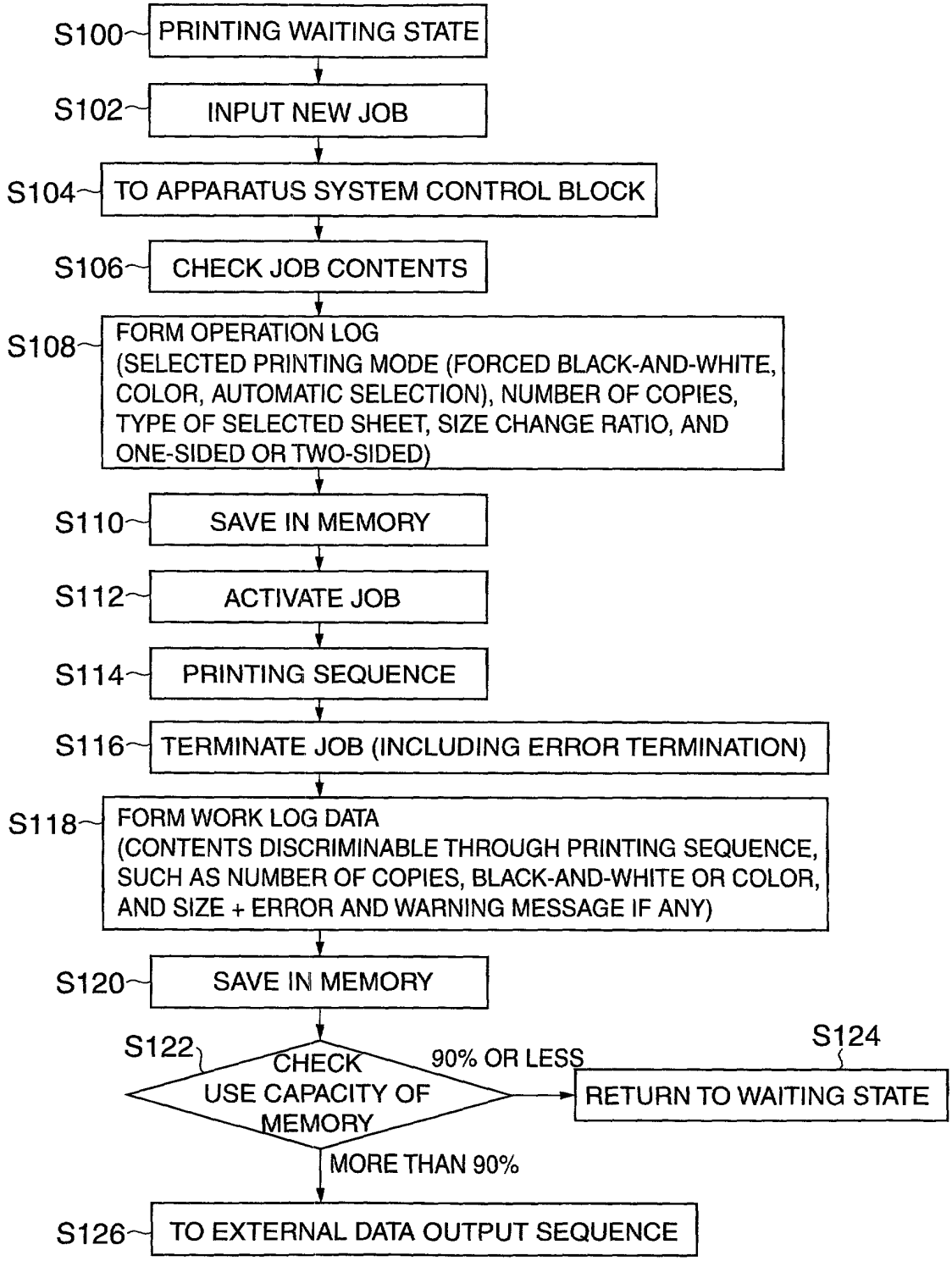
S100
PRINTING WAITING STATE
S102
INPUT NEW JOB
S104
TO APPARATUS SYSTEM CONTROL BLOCK
S106
CHECK JOB CONTENTS
S108
FORM OPERATION LOG (SELECTED PRINTING MODE (FORCED BLACK-AND-WHITE, COLOR, AUTOMATIC SELECTION), NUMBER OF COPIES, TYPE OF SELECTED SHEET, SIZE CHANGE RATIO, AND ONE-SIDED OR TWO-SIDED)
S110
SAVE IN MEMORY
S112
ACTIVATE JOB
S114
PRINTING SEQUENCE
S116
TERMINATE JOB (INCLUDING ERROR TERMINATION)
S118
FORM WORK LOG DATA (CONTENTS DISCRIMINABLE THROUGH PRINTING SEQUENCE, SUCH AS NUMBER OF COPIES, BLACK-AND-WHITE OR COLOR, AND SIZE + ERROR AND WARNING MESSAGE IF ANY)
S120
SAVE IN MEMORY
S122
CHECK USE CAPACITY OF MEMORY
90% OR LESS
S124
RETURN TO WAITING STATE
MORE THAN 90%
S126
TO EXTERNAL DATA OUTPUT SEQUENCE

FIG.7

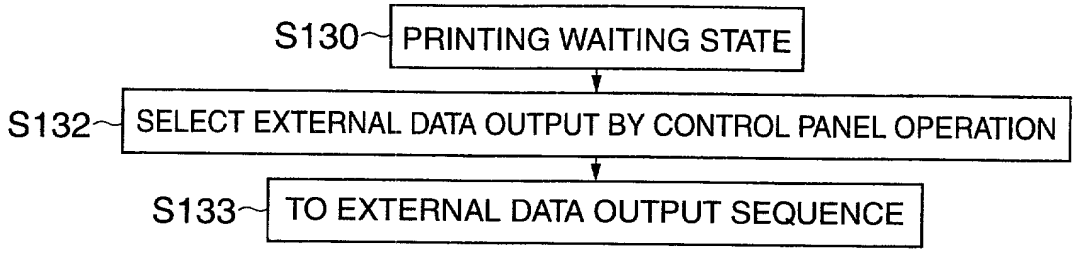

FIG.8

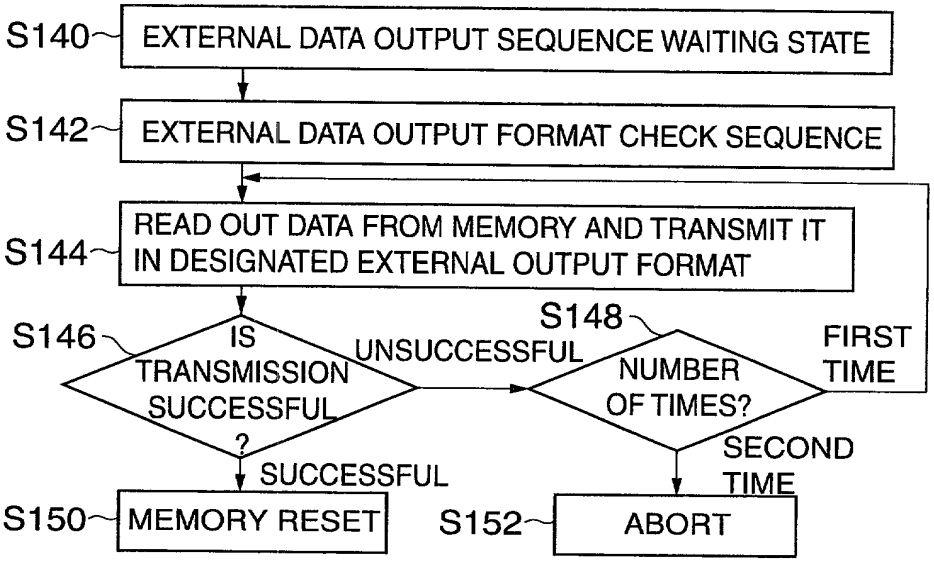

FIG.9

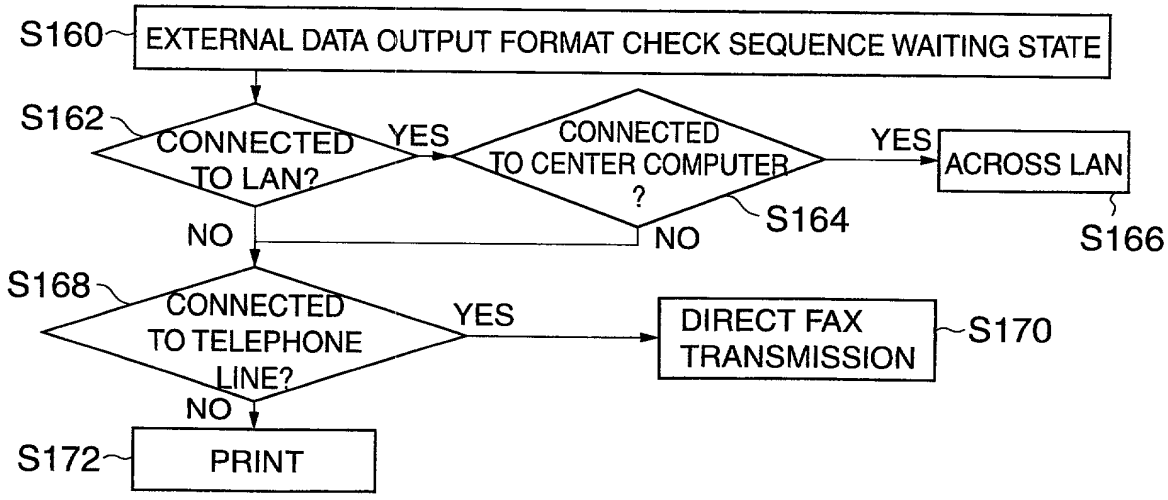

FIG.10

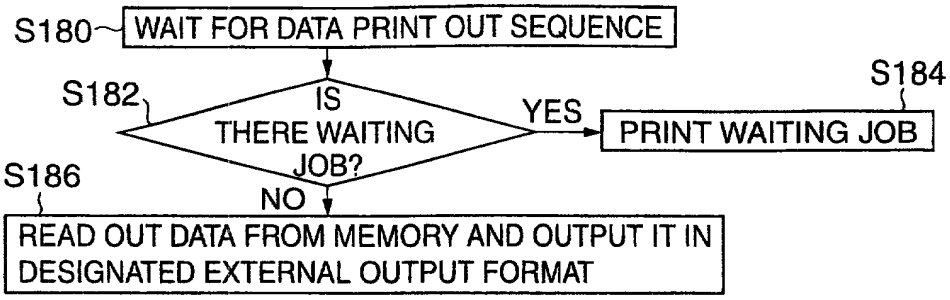
S180
WAIT FOR DATA PRINT OUT SEQUENCE
S182
IS THERE WAITING JOB?
YES
S184
PRINT WAITING JOB
NO
S186
READ OUT DATA FROM MEMORY AND OUTPUT IT IN DESIGNATED EXTERNAL OUTPUT FORMAT

FIG.11

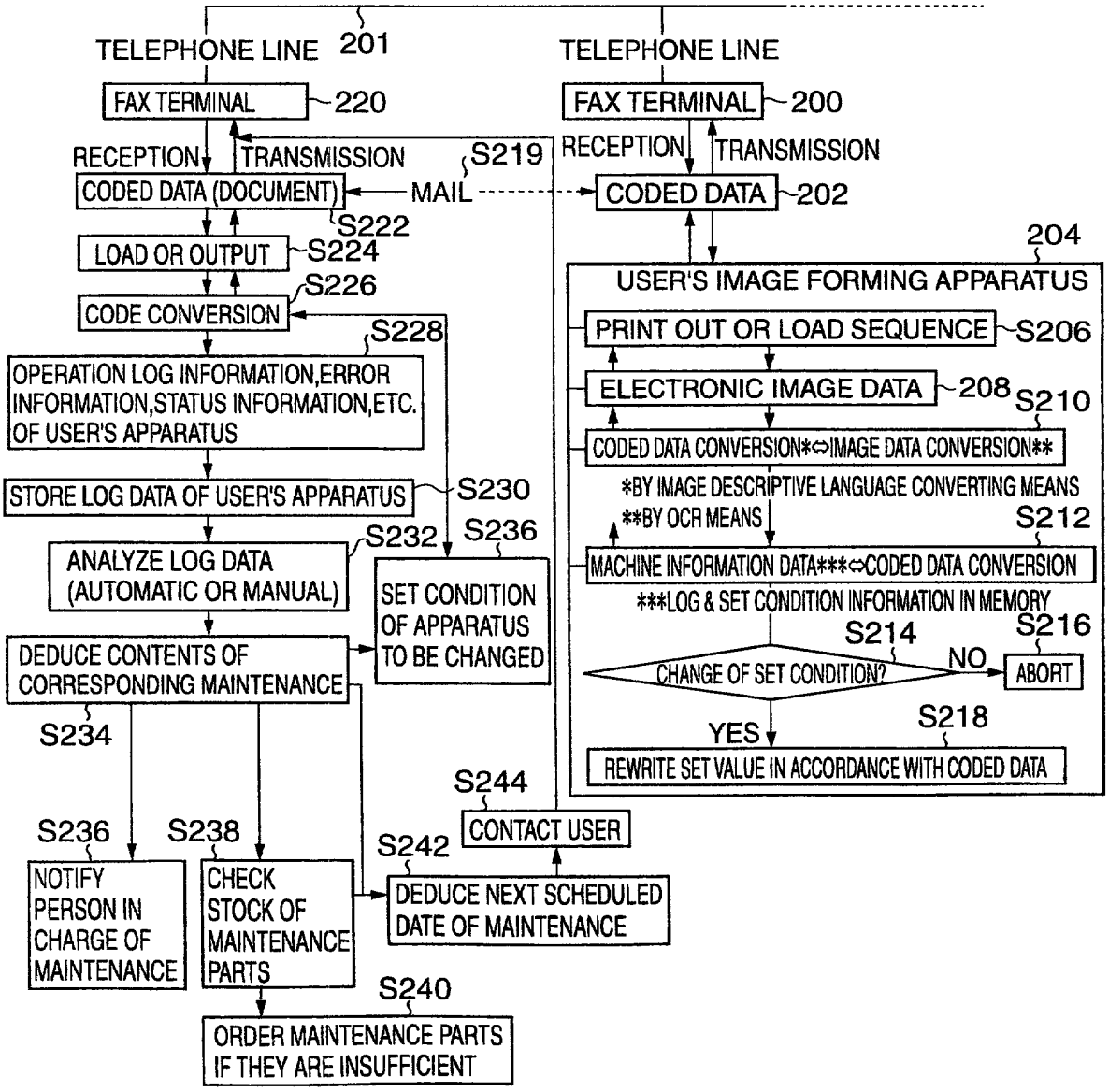
TELEPHONE LINE
201
TELEPHONE LINE
FAX TERMINAL
220
FAX TERMINAL
200
RECEPTION
TRANSMISSION
S219
RECEPTION
TRANSMISSION
CODED DATA (DOCUMENT)
MAIL
CODED DATA
202
S222
LOAD OR OUTPUT
S224
204
USER'S IMAGE FORMING APPARATUS
S226
CODE CONVERSION
PRINT OUT OR LOAD SEQUENCE
S206
S228
ELECTRONIC IMAGE DATA
208
S210
OPERATION LOG INFORMATION,ERROR INFORMATION,STATUS INFORMATION,ETC. OF USER'S APPARATUS
CODED DATA CONVERSION*⇔IMAGE DATA CONVERSION**
*BY IMAGE DESCRIPTIVE LANGUAGE CONVERTING MEANS
**BY OCR MEANS
S212
STORE LOG DATA OF USER'S APPARATUS
S230
MACHINE INFORMATION DATA***⇔CODED DATA CONVERSION
***LOG & SET CONDITION INFORMATION IN MEMORY
S232
S236
S214
S216
ANALYZE LOG DATA (AUTOMATIC OR MANUAL)
SET CONDITION OF APPARATUS TO BE CHANGED
CHANGE OF SET CONDITION?
NO
ABORT
DEDUCE CONTENTS OF CORRESPONDING MAINTENANCE
YES
S218
REWRITE SET VALUE IN ACCORDANCE WITH CODED DATA
S234
S244
CONTACT USER
S236
S238
S242
NOTIFY PERSON IN CHARGE OF MAINTENANCE
CHECK STOCK OF MAINTENANCE PARTS
DEDUCE NEXT SCHEDULED DATE OF MAINTENANCE
S240
ORDER MAINTENANCE PARTS IF THEY ARE INSUFFICIENT

FIG.12

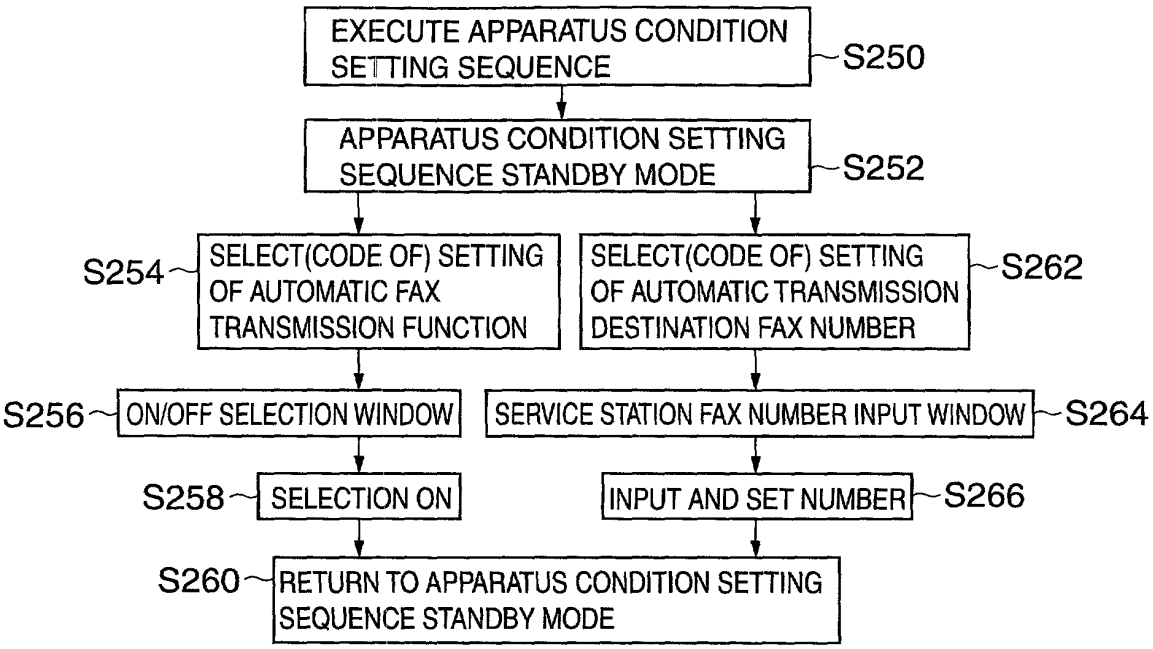
EXECUTE APPARATUS CONDITION SETTING SEQUENCE
S250
APPARATUS CONDITION SETTING SEQUENCE STANDBY MODE
S252
S254
SELECT(CODE OF) SETTING OF AUTOMATIC FAX TRANSMISSION FUNCTION
SELECT(CODE OF) SETTING OF AUTOMATIC TRANSMISSION DESTINATION FAX NUMBER
S262
S256
ON/OFF SELECTION WINDOW
SERVICE STATION FAX NUMBER INPUT WINDOW
S264
S258
SELECTION ON
INPUT AND SET NUMBER
S266
S260
RETURN TO APPARATUS CONDITION SETTING SEQUENCE STANDBY MODE

FIG.13

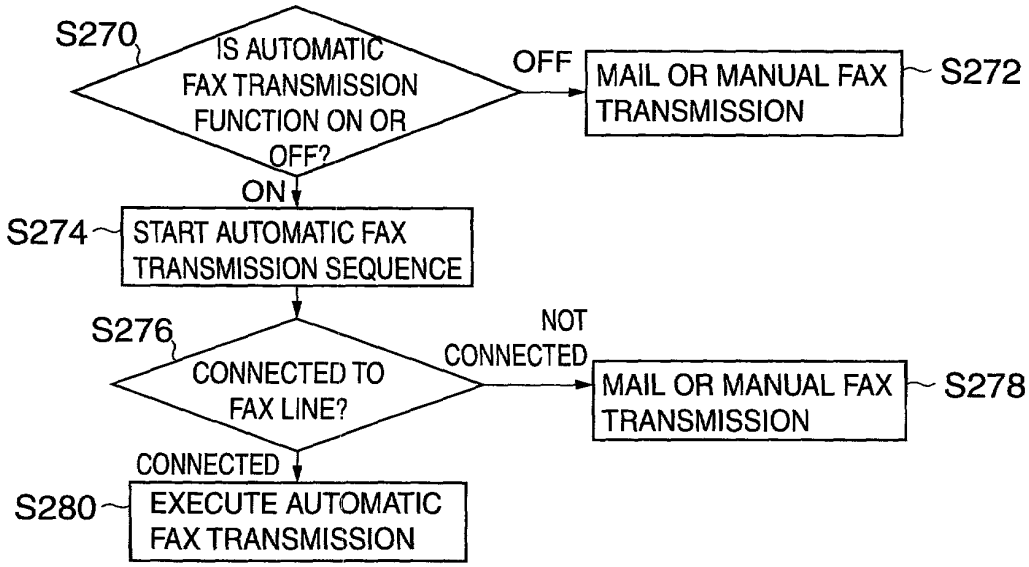
S270
IS AUTOMATIC FAX TRANSMISSION FUNCTION ON OR OFF?
OFF
MAIL OR MANUAL FAX TRANSMISSION
S272
ON
S274
START AUTOMATIC FAX TRANSMISSION SEQUENCE
S276
CONNECTED TO FAX LINE?
NOT CONNECTED
MAIL OR MANUAL FAX TRANSMISSION
S278
CONNECTED
S280
EXECUTE AUTOMATIC FAX TRANSMISSION

FIG.14

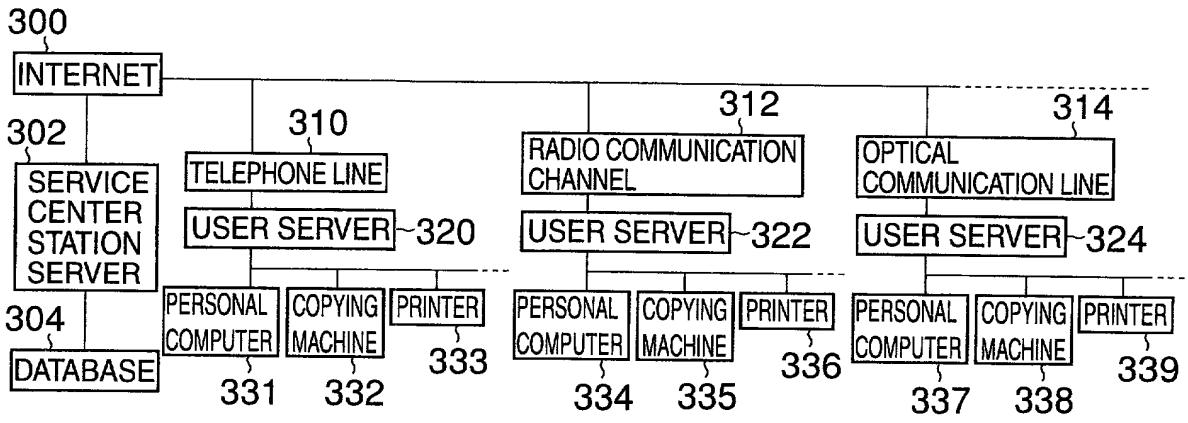
300
INTERNET
302
SERVICE CENTER STATION SERVER
304
DATABASE
310
TELEPHONE LINE
USER SERVER
320
PERSONAL COMPUTER
331
COPYING MACHINE
332
PRINTER
333
312
RADIO COMMUNICATION CHANNEL
USER SERVER
322
PERSONAL COMPUTER
334
COPYING MACHINE
335
PRINTER
336
314
OPTICAL COMMUNICATION LINE
USER SERVER
324
PERSONAL COMPUTER
337
COPYING MACHINE
338
PRINTER
339

FIG.15

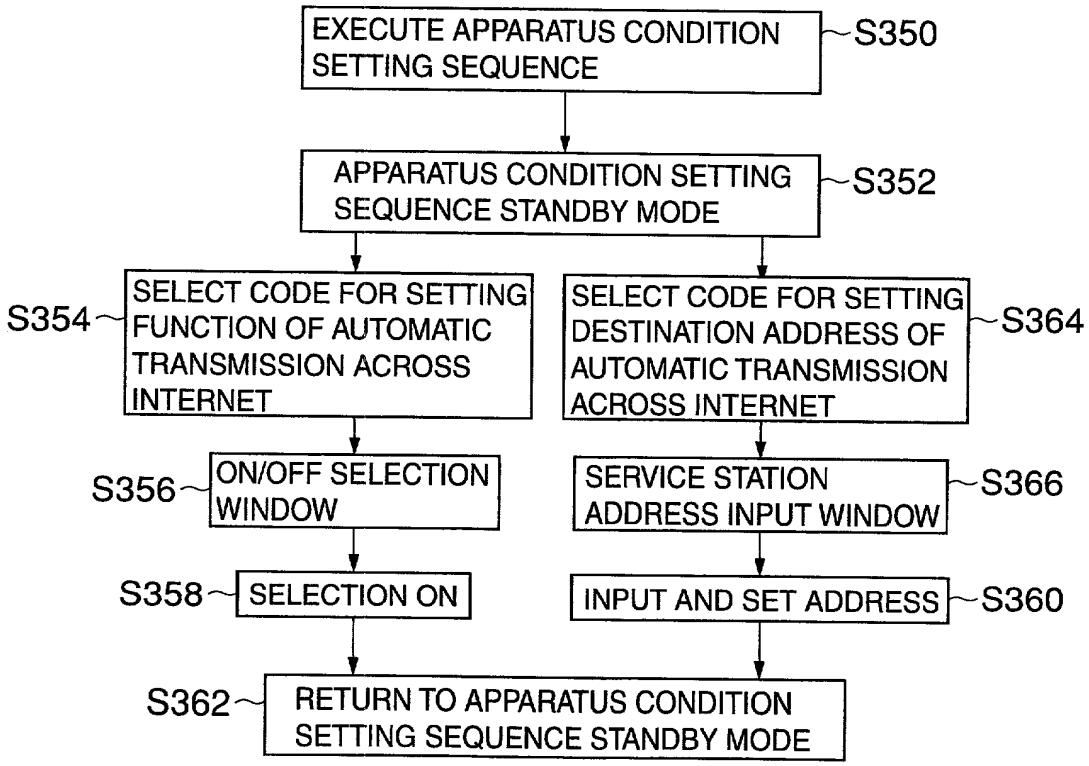
EXECUTE APPARATUS CONDITION SETTING SEQUENCE
S350
APPARATUS CONDITION SETTING SEQUENCE STANDBY MODE
S352
S354
SELECT CODE FOR SETTING FUNCTION OF AUTOMATIC TRANSMISSION ACROSS INTERNET
SELECT CODE FOR SETTING DESTINATION ADDRESS OF AUTOMATIC TRANSMISSION ACROSS INTERNET
S364
S356
ON/OFF SELECTION WINDOW
SERVICE STATION ADDRESS INPUT WINDOW
S366
S358
SELECTION ON
INPUT AND SET ADDRESS
S360
S362
RETURN TO APPARATUS CONDITION SETTING SEQUENCE STANDBY MODE

FIG.16

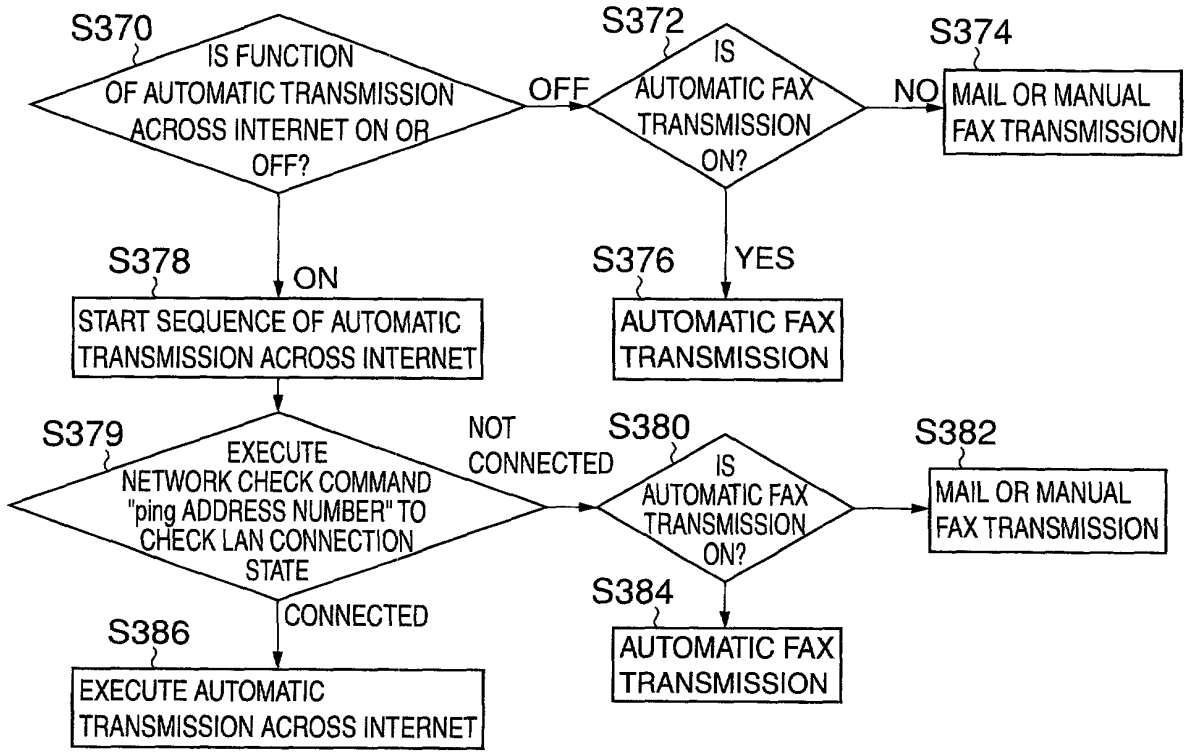
S370
IS FUNCTION OF AUTOMATIC TRANSMISSION ACROSS INTERNET ON OR OFF?
OFF
S372
IS AUTOMATIC FAX TRANSMISSION ON?
NO
S374
MAIL OR MANUAL FAX TRANSMISSION
ON
S378
START SEQUENCE OF AUTOMATIC TRANSMISSION ACROSS INTERNET
YES
S376
AUTOMATIC FAX TRANSMISSION
S379
EXECUTE NETWORK CHECK COMMAND "ping ADDRESS NUMBER" TO CHECK LAN CONNECTION STATE
NOT CONNECTED
S380
IS AUTOMATIC FAX TRANSMISSION ON?
S382
MAIL OR MANUAL FAX TRANSMISSION
CONNECTED
S386
EXECUTE AUTOMATIC TRANSMISSION ACROSS INTERNET
S384
AUTOMATIC FAX TRANSMISSION

FIG.17

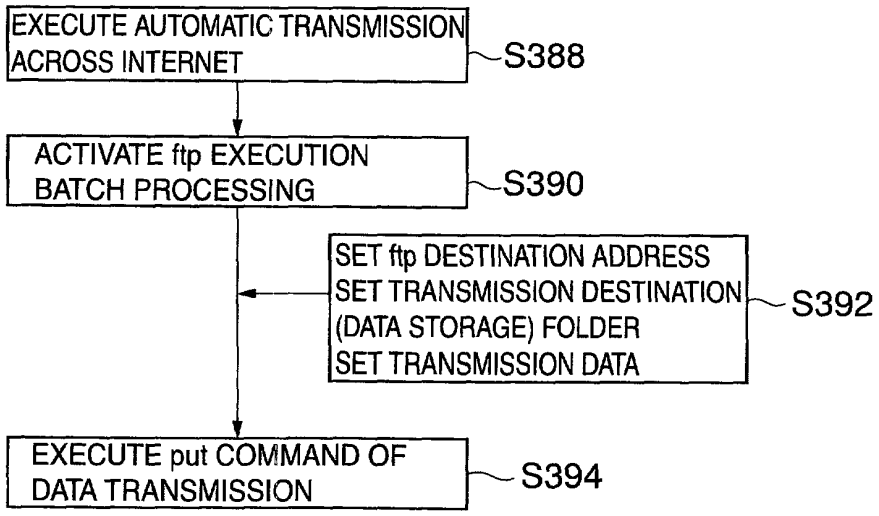
EXECUTE AUTOMATIC TRANSMISSION ACROSS INTERNET
S388
ACTIVATE ftp EXECUTION BATCH PROCESSING
S390
SET ftp DESTINATION ADDRESS
SET TRANSMISSION DESTINATION (DATA STORAGE) FOLDER
SET TRANSMISSION DATA
S392
EXECUTE put COMMAND OF DATA TRANSMISSION
S394

FIG.18

09895877 "030905

	DATE/TIME	ERROR CODE	MONOCHROMATIC /COLOR	NUMBER OF COPIES	ORIGINAL SIZE	OUTPUT SIZE	ONE-SIDED/ TWO-SIDED	ORIGINAL SUPPLY	NUMBER OF ORIGINALS	SUPPLY SELECTION	SORT	FINISHING			
POWER ON=100 WARM UP=101 KEEP IMAGE QUALITY=102 POSITIONING=103 COPY=201 PRINT=202 ERROR=300 MAINTENANCE CALL=301		00=JAM + LOCATION ETC.	0/1	NUMERICAL VALUE	A/B=0/1 + SIZE NUMBER	A/B=0/1 + SIZE NUMBER	0/1	MANUAL FEED=0 AUTOMATIC=1 PRINT=2	NUMERICAL VALUE	MANUAL FEED=0 CASSETTE NUMBER FOR CASSETTE	NORMAL=0 SORT=1 GROUP=2	NONE=0 STAPLE=1		CODED DATA (DECIMAL NUMBER)	CODED DATA (BASE-32 NUMBER)
100	0009210823													1000009210823	T3AJ36U7
101														101	35
102														102	36
103														103	37
201			0	1	03	03	0	0	1	1	0	0		201010303001100	5MQ5DR9oGC
202			1	3	04	04	1	1	5	2	1	1		202130404115211	5NQoJEV0oB
201			0	5	04	04	0	2	0	1	1	0		201050404020110	5MRAoUJNSE
300	0009211200	0012												30000092112000012	QKKTJOP1500
201			0	1	03	03	0	0	1	1	0	0		201010303001100	5MQ5DR9oGC
...															
...															

FIG.19

	CODE	VALUES AFTER SETTING AND ADJUSTMENT FOLLOWING DESCRIBED PRESCRIPTION													CODED DATA (DECIMAL NUMBER)	CODED DATA (BASE-32 NUMBER)	
MOTOR SET VALUE	500	50	60	55	49	52									5005060554952	4HLADMG68	
READING POSITION CORRECTION VALUE	501	50	51	55	52										50150515052	1EMJ88BC	
FIXING TEMPERATURE SETTING	502	50	60	70	81										50250607081	1EPiMQF9	
γ CORRECTION VALUE	503	50	52	53	49										50350525349	1ESi02T5	
COLOR SUPERPOSITION CORRECTION VALUE K	504	50	50	50	50										50450505050	1EVHB7AQ	
COLOR SUPERPOSITION CORRECTION VALUE C	505	51	50	52	49										50551505249	1F2HLGB1	
COLOR SUPERPOSITION CORRECTION VALUE M	506	53	52	48	50										50653524850	1F5iUSRi	
COLOR SUPERPOSITION CORRECTION VALUE Y	507	48	50	51	50										50748505150	1F8DHF1U	
REGISTRATION TIMING VALUE	508	50	53	52	51										50850535251	1FBER5QJ	
...																	
...																	

FIG.20

Title: Image Forming Apparatus, Communication System For Maintenance Of Image Forming Apparatus, Maintenance Service Method Of Image Forming Apparatus, And Medium Storing Information To Be Used In Maintenance
Inventor(s): Toshiaki TANAKA
Serial No. 09/895,877